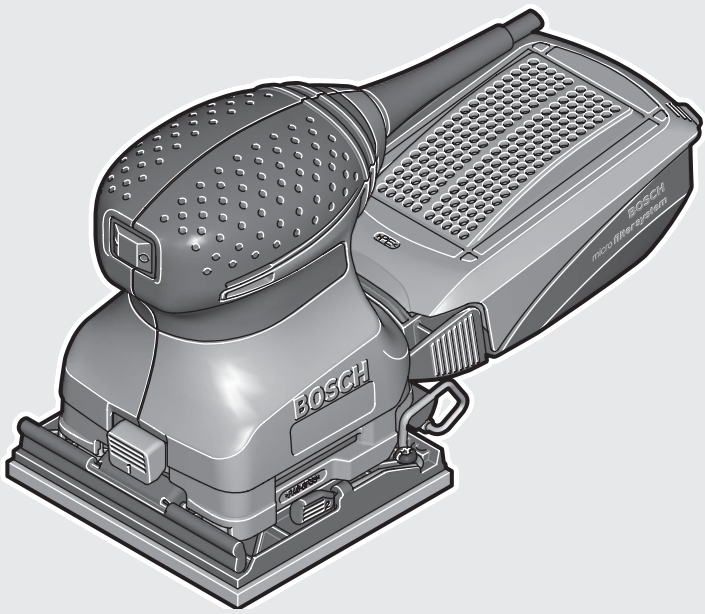

GSS 140 A Professional

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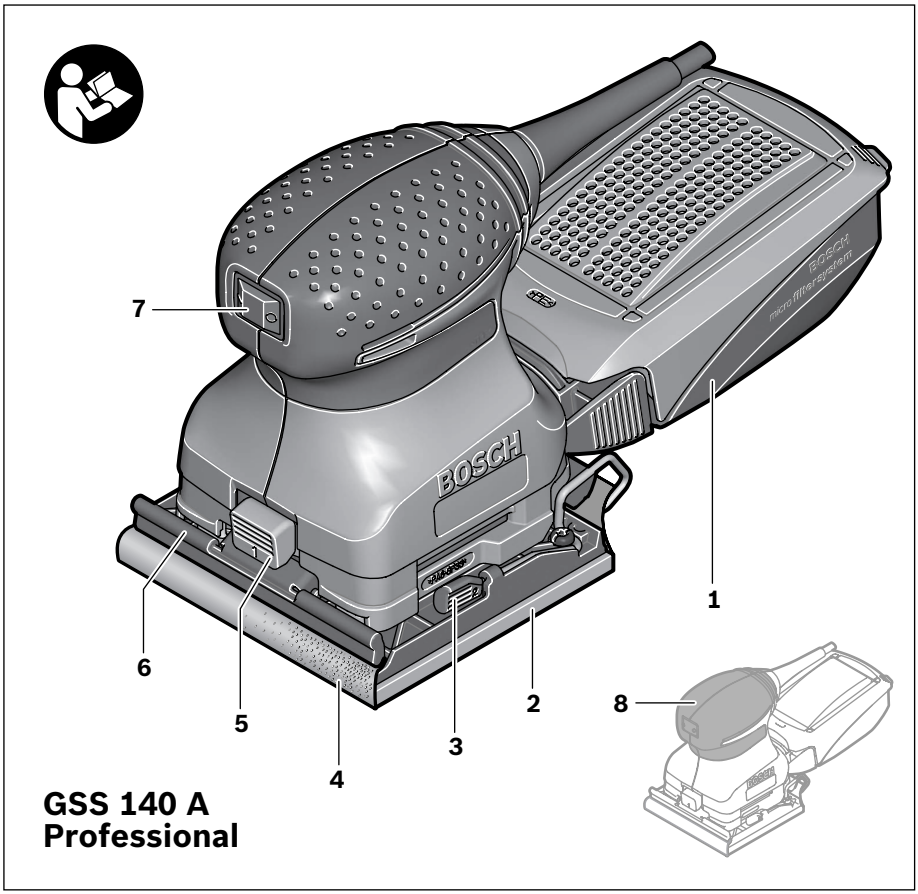
en Operating instructions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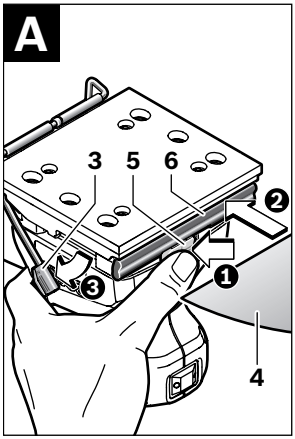
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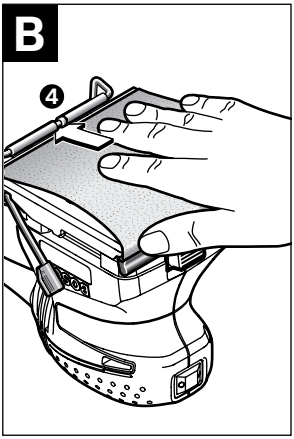
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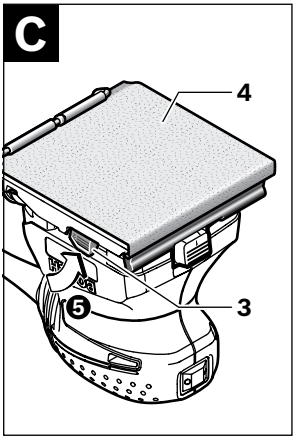
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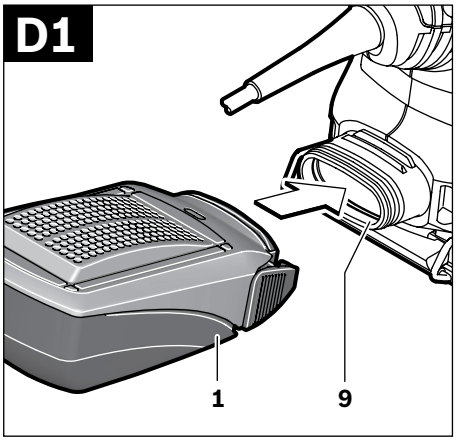
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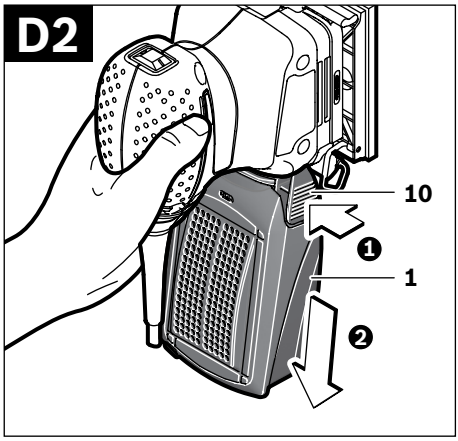
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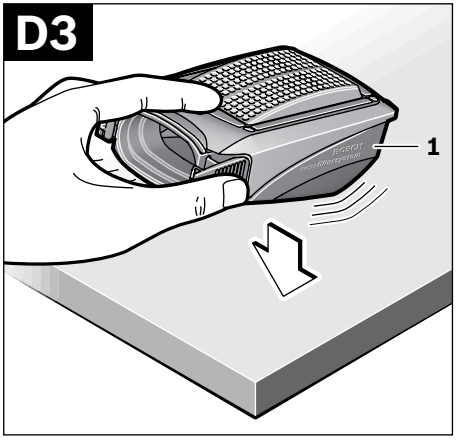
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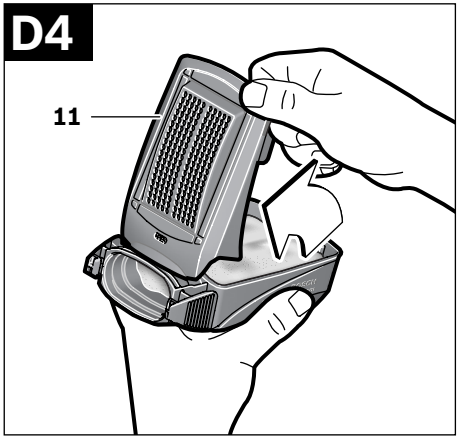
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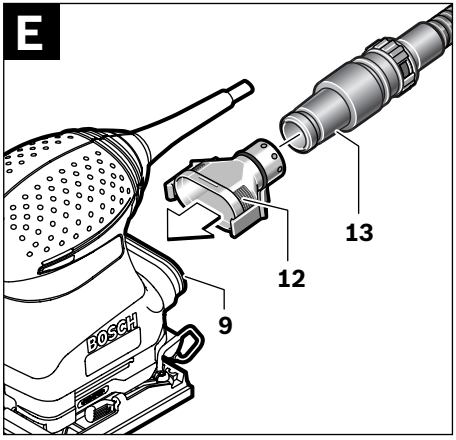
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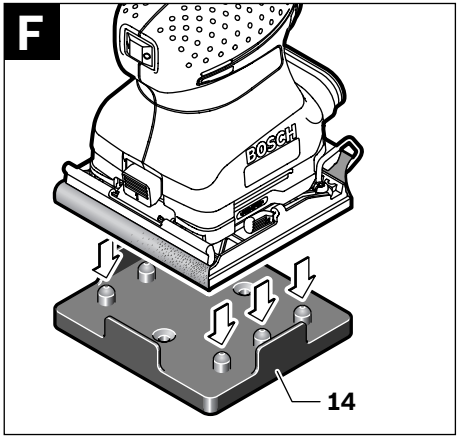
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Save all warnings and instructions for future reference. The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1. Work area safety

a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.

b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2. Electrical safety

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges and moving parts. Damaged or entangled cords increase the risk of electric shock.

e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

3. Personal safety

a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.

d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

h) Use ear protectors. Exposure to noise can cause hearing loss.

4. Power tool use and care

a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5. Service

a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

b) In case of consuming of the carbon brushes to send the tool by assistance authorized technique for substitution. Carbon brushes are of specify them cause damages to the motor of the tool.

c) If the power cord is damaged, the power cord shall be replaced by manufacturer, service or qualified person to avoid the risk of electrical shock.

Safety Warnings for Sander

- ► **Use the machine only for dry sanding.** Penetration of water into the machine increases the risk of an electric shock.
- ► **Caution, fire hazard! Avoid overheating the object being sanded as well as the sander. Always empty the dust collector before taking breaks.** In unfavourable conditions, e. g., when sparks emit from sanding metals, sanding debris in the dust bag, micro filter or paper sack (or in the filter sack or filter of the vacuum cleaner) can self-ignite. Particularly when mixed with remainders of varnish, polyurethane or other chemical materials and when the sanding debris is hot after long periods of working.
- ► **Secure the workpiece.** A workpiece clamped with clamping devices or in a vice is held more secure than by hand.

Products sold in GB only: Your product is fitted with an BS 1363/A approved electric plug with internal fuse (ASTA approved to BS 1362).
If the plug is not suitable for your socket outlets, it should be cut off and an appropriate plug fitted in its place by an authorised customer service agent. The replacement plug should have the same fuse rating as the original plug.
The severed plug must be disposed of to avoid a possible shock hazard and should never be inserted into a mains socket elsewhere.
Products sold in AUS and NZ only: Use a residual current device (RCD) with a rated residual current of 30 mA or less.

Functional Description

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. While reading the operating instructions, unfold the graphics page for the machine and leave it open.

Intended Use

The machine is intended for dry sanding of wood, plastic, filler and coated surfaces.

Product Features

The numbering of the product features refers to the illustration of the machine on the graphics page.

1 Dust box, complete (Microfilter System)*
2 Sanding plate
3 Sanding-sheet clamp
4 Sanding sheet*
5 Release button for front clamping bracket
6 Front clamping bracket
7 On/Off switch
8 Handle (insulated gripping surface)
9 Extraction outlet
10 Latching lever for dust box*
11 Filter element (Microfilter System)*
12 Extraction adapter*
13 Vacuum hose*
14 Perforating tool*

***Accessories shown or described are not part of the standard delivery scope of the product. A complete overview of accessories can be found in our accessories program.**

Technical Data

Orbital sander		GSS 140 A Professional
Article number		0 601 297 0..
Rated power input	W	180
No-load speed	min^{-1}	12000
No-load orbital stroke rate	min^{-1}	24000
Orbit diameter	mm	1.6
Sanding sheet dimensions – Adhesion via Velcro backing – Attachment via clamping	 mm mm	 115 x 107 115 x 140
Sanding plate dimensions	mm	113 x 105
Weight according to EPTA-Procedure 01/2003	kg	1.4
Protection class		⧈/II

The values given are valid for a nominal voltage [U] of 230 V. For different voltages and models for specific countries, these values can vary.
Please observe the article number on the type plate of your machine. The trade names of the individual machines may vary.

Noise/Vibration Information

Measured sound values determined according to EN 60745.
Typically the A-weighted noise levels of the product are: Sound pressure level 82 dB(A); Sound power level 93 dB(A). Uncertainty K=3 dB.
Wear hearing protection!
Vibration total values (triax vector sum) determined according to EN 60745: Vibration emission value ah =6.5 m/s2, Uncertainty K =2.0 m/s2.

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 60745 and may be used to compare one tool with another.
It may be used for a preliminary assessment of exposure.
The declared vibration emission level represents the main applications of the tool. However if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.
An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.
Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

Assembly

▶ **Before any work on the machine itself, pull the mains plug.**

Replacing the Sanding Sheet

When attaching a new sanding sheet, remove any dust or debris from the sanding plate **2** (e. g. with a brush).
To ensure optimum dust extraction, pay attention that the punched holes in the sanding sheet match with the holes in the sanding plate.

Sanding Sheets with Velcro Backing

The sanding plate **2** is fitted with Velcro backing for quick and easy fastening of sanding sheets with Velcro adhesion.
Before attaching the sanding sheet **4**, free the Velcro backing of the sanding plate **2** from any debris by tapping against it in order to enable optimum adhesion.

Position the sanding sheet **4** flush alongside one edge of the sanding plate **2**, then lay the sanding sheet onto the sanding plate and press firmly.

To remove the sanding sheet **4**, grasp it at one of the tips and pull it off from the sanding plate **2**.

Sanding Sheets without Velcro Backing (see figure A – C)

❶ Press the release button **5** and keep it depressed.
❷ Guide the sanding sheet **4** to the stop under the opened front clamping bracket **6** and let go of the release button **5** again. Pay attention that the sanding sheet is clamped centrally.
❸ Press the sanding sheet clamp **3** inward and pivot it to the stop.
❹ Fold the sanding sheet **4** firmly around the sanding plate. Guide the other end of the sanding sheet **4** between the rear clamping bracket and the red roller on the clamping bracket **3**.
❺ Hold the sanding sheet tensely and press the clamping bracket **3** toward the sanding plate to lock the sanding sheet.

Sanding sheets without holes, e. g. from rolls or by the meter, can be punctured with the perforating tool **14**. For this, push the power tool with the sanding sheet mounted onto the perforating tool (see figure F).
To remove the sanding sheet **4**, loosen the clamping bracket **3** and pull out the sanding sheet from the rear holding fixture. Press the release button **5** and completely remove the sanding sheet.

Selecting the Sanding Sheet

Depending on the material to be worked and the required rate of material removal, different sanding sheets are available:

		Grain size
red:Wood		40—240
For the working of all wooden materials		
For coarse-sanding, e. g. of rough, unplaned beams and boards	coarse	40, 60
For face sanding and planing small irregularities	medium	80, 120
For finish and fine sanding of hard woods	fine	180, 240
white:Paint		40—240
For the working of paint/enamel coats or primers and fillers		
For sanding off paint	coarse	40, 60
For sanding primer	medium	80, 120
For final sanding of primers before coating	fine	180, 240

Dust/Chip Extraction

▶ Dusts from materials such as lead-containing coatings, some wood types, minerals and metal can be harmful to one's health. Touching or breathing-in the dusts can cause allergic reactions and/or lead to respiratory infections of the user or bystanders. Certain dusts, such as oak or beech dust, are considered as carcinogenic, especially in connection with wood-treatment additives (chromate, wood preservative). Materials containing asbestos may only be worked by specialists.
– As far as possible, use a dust extraction system suitable for the material.

– Provide for good ventilation of the working place.
– It is recommended to wear a P2 filterclass respirator. Observe the relevant regulations in your country for the materials to be worked.

▶ **Prevent dust accumulation at the workplace.** Dusts can easily ignite.

Integrated Dust Extraction with Dust Box (see figures D1 – D4)

Attach the dust box **1** onto the extraction outlet 9 until it latches.
To empty the dust box **1**, press the latching levers **10** on the side of the dust box (❶). Pull off the dust box toward the bottom (❷).
Before opening the dust box **1**, it is recommended to loosen the dust from the filter element by gently striking it against a firm support (as shown in the figure).
Grasp the dust box **1** by the recessed grip, fold the filter element **11** upward and empty the dust box. Clean the thin plates of the filter element **11** with a soft brush.

External Dust Extraction (see figure E)

Slide the extraction adapter **12** onto the outlet piece **9**. Ensure that the latching levers of the extraction adapter engage. The extraction adapter **12** accepts a vacuum hose with a diameter of 19 mm.
An overview for connecting to different vacuum cleaners can be found at the end of these operating instructions.
For removal of the extraction adapter **12**, press the latching levers together at the rear and pull the extraction adapter off.
The vacuum cleaner must be suitable for the material being worked.
Utilizar um aspirador especial para aspirar pó que seja extremamente nocivo à saúde, cancerígeno ou seco.

Operation

Starting Operation

▶ **Observe correct mains voltage! The voltage of the power source must agree with the voltage specified on the nameplate of the machine. Power tools marked with 230 V can also be operated with 220 V.**

Switching On and Off

To **start** the machine, tilt the On/Off switch **7** toward the right to the "**I**" position.
To **switch off** the machine, tilt the On/Off switch **7** toward the left to the "**0**" position.

Working Advice

▶ **Wait until the machine has come to a standstill before placing it down.**

The removal capacity during sanding is mainly determined by the selection of the sanding sheet.
Only flawless sanding sheets achieve good sanding capacity and extend the service life of the machine.
Pay attention to apply uniform sanding pressure; this increases the working life of the sanding sheets.
Intensifiying the sanding pressure does not lead to an increase of the sanding capacity, but to increased wear of the machine and the sanding sheet.
A sanding sheet that has been used for metal should not be used for other materials.
Use only original Bosch sanding accessories.

Maintenance and cleaning

▶ **Before any work on the machine itself, pull the mains plug.**

▶ **For safe and proper working, always keep the machine and ventilation slots clean.**

If the machine should fail despite the care taken in manufacturing and testing procedures, repair should be carried out by an after-sales service centre for Bosch power tools.
In all correspondence and spare parts order, please always include the 10-digit article number given on the type plate of the machine.

After-sales Service and Customer Assistance

Our after-sales service responds to your questions concerning maintenance and repair of your product as well as spare parts. Exploded views and information on spare parts can also be found under:
www.bosch-pt.com
Our customer service representatives can answer your questions concerning possible applications and adjustment of products and accessories.

Guarantee

We guarantee BOSCH appliances in accordance with statutory/country-specific regulations (proof of purchase by invoice or delivery note). Damage attributable to normal wear and tear, overload or improper handling will be excluded from the guarantee.
In case of complaint please send the machine, **undismantled**, to your dealer or the BOSCH Service Center for Electric Power Tools.
Warning! Freight and insurance costs are charged to the client, even for warranty claims.

Enviromental Protection

The machine, accessories and packaging should be sorted for environmental-friendly recycling.

If you discard your machine, accessories, do not put off in the trash, please give it to a technical service Bosch. It will provide a better destination according the politics of preservation of the environment, recycling parts according the local laws.

Subject to change without notice.